CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/WNo.14/KRIDL/CEMENT/2012-13

Date: 09.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of cement concrete drains at 1st & 3rd Main Roads at Manjunathanagara, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	161 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	482 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/WNo.14/KRIDL/SAND/2012-13 : 09.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of cement concrete drains at 1st & 3rd Main Roads at Manjunathanagara, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Date of Testing : 09.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	112	5.60	5.60	94.4	90-100
2.36	262	13.10	18.70	81.3	75-100
1.18	423	21.15	39.85	60.2	55-90
600 Micron	475	23.75	63.60	36.4	35-59
300 Micron	502	25.10	88.70	11.3	8-30
150 Micron	124	6.20	94.90	5.1	0-10

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Job No.: CTCE/BBMP/WNo.14/KRIDL/AGG/2012-13 : 09.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of cement concrete drains at 1st & 3rd Main Roads at Manjunathanagara, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Date of Testing : 09.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25600**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	993	3.88	3.88	96.12	95-100
20	16248	63.47	67.35	32.65	30-70
10	5484	21.42	88.77	11.23	10-35
4.75	2613	10.21	98.98	1.02	0-5

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.14/KRIDL/STEEL/2012-13 09.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Construction of cement concrete drains at 1st & 3rd Main Roads at Manjunathanagara, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
Date of Test	:	09.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	515	547	12.75	O.K	O.K
2	10	0.62	519	550	12.95	O.K	O.K
3	12	0.89	523	554	13.15	O.K	O.K

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Job No.: CTCE/BBMP/WNo.14/KRIDL/CUBE/2012-13 12.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Construction of cement concrete drains at 1st & 3rd Main Roads at Manjunathanagara, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2013	12.04.2013	8.237	483.5	21.49
2	15.03.2013	12.04.2013	8.456	523.7	23.28
3	15.03.2013	12.04.2013	8.382	501.6	22.29

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TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2013	16.04.2013	8.149	479.5	21.31
2	19.03.2013	16.04.2013	8.236	492.6	21.89
3	19.03.2013	16.04.2013	8.375	513.7	22.83

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